

WHAT IS CLAIMED IS:

1. A material cutting device, comprising:
 - a board upon which a material is to be cut, the board including a first surface upon which the material is placed;
 - a rail member operatively and rotatably connected to the board; and
 - a cartridge assembly slidably engaging the rail member and slidable along a cutting axis along the board, the cartridge assembly including:
 - a sleigh in slidable engagement with the rail member,
 - a cartridge removably connected to the sleigh, the cartridge being removable from the sleigh without the use of tools, and
 - a cutting element removably engaging the cartridge,
 - wherein a cutting surface of the cutting element aligns with the cutting axis of the board.
2. The material cutting device of claim 1, wherein the cartridge snap fits with the sleigh.
3. The material cutting device of claim 2, wherein the cartridge includes:
 - a cartridge casing;
 - an axle fixedly secured to the cutting element; and
 - a coupling member positioned between the axle and the cartridge casing, the coupling member acting against the axle to align the cutting element against the rail member.
4. The material cutting device of claim 3, wherein the cartridge includes a biasing member operatively connected to the cartridge casing, the biasing member biasing the cartridge away from the sleigh.

5. The material cutting device of claim 4, wherein the biasing member comprises a leaf spring.
6. The material cutting device of claim 1, further comprising a first measuring arm rotatably and operatively connected to the board, the first measuring arm rotatable about an axis substantially perpendicular to the cutting axis.
7. The material cutting device of claim 6, wherein the first measuring arm includes a first surface that is substantially coplanar with the first surface of the board.
8. The material cutting device of claim 6, further comprising a second measuring arm rotatably and operatively connected to the board, the second measuring arm rotatable about an axis substantially perpendicular to the cutting axis.
9. The material cutting device of claim 1, further comprising a material clamp removably and operatively connected to the board, wherein the material is secured between the material clamp and the board.
10. The material cutting device of claim 9, wherein the material clamp comprises a first end, a second end and an elongated portion between the first end and the second end, the elongated portion extending substantially parallel to the cutting axis, and wherein the first end and the second end each include means for removably securing the material clamp to the board.
11. The material cutting device of claim 1, further comprising a plurality of hinge members rotatably coupling the rail member to the cutting board,

permitting the rail member to rotate about an axis substantially parallel to the cutting axis.

12. The material cutting device of claim 11, further comprising a cutting mat positioned within the board along the cutting axis.

13. A material cutting device, comprising:

- a board upon which a material is to be cut, the board including a first surface upon which the material is placed;

- a rail member operatively connected to the board, the rail member rotatable about an axis substantially perpendicular to a cutting axis along the board; and

- a cartridge assembly slidably engaging the rail member and slidable along the cutting axis, the cartridge assembly including:

- a sleigh in slidable engagement with the rail member,

- a cartridge removably connected to the sleigh, the cartridge being removable from the sleigh without the use of tools,

- a cutting element removably engaging the cartridge, and

- a biasing member operatively connected to the cartridge, the biasing member biasing the cartridge away from the sleigh,

- wherein a cutting surface of the cutting element aligns with the cutting axis of the board.

14. The material cutting device of claim 13, wherein the cartridge includes:

- a cartridge casing;

- an axle fixedly secured to the cutting element; and

a coupling member positioned between the axle and the cartridge casing, the coupling member acting against the axle to align the cutting element against the rail member.

15. The material cutting device of claim 14, wherein the cartridge snap fits with the sleigh.

16. The material cutting device of claim 14, wherein the biasing member comprises a leaf spring.

17. The material cutting device of claim 14, further comprising a cutting mat positioned within the board along the cutting axis.

18. The material cutting device of claim 14, further comprising a material clamp removably and operatively connected to the board, wherein the material is secured between the material clamp and the board.

19. The material cutting device of claim 18, wherein the material clamp comprises a first end, a second end and an elongated portion between the first end and the second end, the elongated portion extending substantially parallel to the cutting axis, and wherein the first end and the second end each include means for removably securing the material clamp to the board.

20. A cartridge assembly for use with a cutting device, comprising:
a sleigh adapted for slidable engagement with a rail member,
an upper casing member removably connected to the sleigh and being removable from the sleigh without the use of tools;
a biasing member acting against the sleigh to bias the upper casing member away from the sleigh;

a side casing member operatively connected to the upper casing member;

a cutting element removably and rotatably positioned between the upper casing member and the side casing member; and

means for removably securing the cutting element between the upper casing member and the side casing member.

21. The cartridge assembly of claim 20, wherein the securing means comprises:

an axle fixedly secured to the cutting element and operatively connected to the upper casing member and the side casing member; and

a coupler engaging and securing the axle to the side casing member.